

A/P/ 1 Claim 1 (currently amended) A mogul cylinder assembly comprising:

2 a generally-cylindrical lock housing mogul having a front surface and a principal
3 axis and having a cylinder bore disposed therein having a principal axis parallel to, and
4 offset from, the principal axis of the lock housing mogul and an inner surface disposed
5 therein, a first driver pin bore extending radially from, and orthogonal to, the principal axis
6 of the cylinder bore, and a second driver pin bore extending radially from, and orthogonal
7 to, the principal axis of the cylinder bore and not parallel orthogonal to the first pin bore;

8 a cylinder blank disposed within the cylinder bore and having a principal axis aligned
9 to the principal axis of the ~~lock housing mogul~~ cylinder bore, a first pass key pin bore
10 aligned to the first driver pin bore of the lock housing mogul, and a second pass key pin bore
11 aligned to the second driver pin bore of the lock housing mogul;

12 a first driver pin disposed within the first driver pin bore;

13 a first pass key pin, having a conical shaped end, disposed within the first pass key
14 pin bore;

15 a second driver pin disposed within the second driver pin bore; and

16 a second pass key pin, having a conical shaped end, disposed within the second pass
17 key pin bore.

1 Claim 2 (currently amended) The mogul cylinder assembly of claim 1 wherein at least
2 one of the first and second driver pin bores includes an internally-threaded portion
3 having a socket screw disposed therein ~~the first and second driver pin bores are disposed~~

4 ~~orthogonal to the principal axis of the cylinder bore and are disposed 90 degrees to one~~
5 ~~another radially about the principal axis of the cylinder bore.~~

1 Claim 3 (currently amended) The mogul cylinder assembly of claim 1 further
2 comprising a third driver pin bore extending radially from the principal axis of the cylinder
3 bore and not collinear ~~parallel~~ to either the first driver pin bore or second driver pin bore.

1 Claim 4 (original) The mogul cylinder assembly of claim 3 wherein the first, second,
2 and third driver pin bores are disposed orthogonal to the principal axis of the cylinder bore,
3 and the first and third driver pin bores are disposed 90 degrees to the second driver pin bore
4 radially about the principal axis of the cylinder bore.

1 Claim 5 (original) The mogul cylinder assembly of claim 1 further comprising a third
2 driver pin bore extending radially from the principal axis of the cylinder bore and parallel to
3 the first driver pin bore.

1 Claim 6 (original) The mogul cylinder assembly of claim 5 wherein the third driver pin
2 bore extends in the same direction as the first driver pin bore.

1 Claim 7 (currently amended) The mogul cylinder assembly of claim 1 further
2 comprising ~~a shielding device~~ a first hardened dowel pin disposed between the first driver
3 pin bore and the front surface of the lock housing mogul and a second hardened dowel pin
4 disposed between the first hardened dowel pin and the first driver pin bore.

1 Claim 8 (currently amended) A mogul cylinder assembly comprising:

2 a generally-cylindrical lock housing mogul having a front surface and a principal
3 axis and having a cylinder bore having a principal axis parallel to and offset from the
4 principal axis of the lock housing mogul and an inner surface ~~disposed therein~~, a first set
5 of driver pin bores aligned with a first driver pin plane extending radially from the principal
6 axis of the cylinder bore, a second set of one or more driver pin bores extending radially from
7 the principal axis of the cylinder bore and not parallel to any of the pin bores in the first set of
8 pin bores or the first plane;

9 a cylinder blank disposed within the cylinder bore and having a principal axis aligned
10 to the principal axis of the ~~lock housing mogul~~ cylinder bore, a first set of pass key pin
11 bores each aligned to one of the driver pin bores in the first set of driver pin bores of the lock
12 housing mogul, and a second set of pass key pin bores each aligned to a driver pin bore in the
13 second set of one or more driver pin bores in the lock housing mogul;

14 a first set of driver pins, each disposed within one of the driver pin bores in the first
15 set of driver pin bores;

16 a first set of pass key pins, each having a conical shaped end and disposed within
17 one of the pass key pin bores in the first set of pass key pin bores;

18 a second set of one or more driver pins, each disposed within the second set of driver
19 pin bores; and

20 a second set of one or more pass key pins, each having a conical shaped end and
21 disposed within one of the second set of pass key pin bores.

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1 Claim 9 (original) The mogul cylinder assembly of claim 8 wherein the first set of
2 driver pin bores is aligned with a first plane passing through the principal axis of the cylinder
3 bore and at least one of the bores in the second set of driver pin bores is disposed 90 degrees
4 to the first plane radially about the principal axis of the cylinder bore.

1 Claim 10 (currently amended) The mogul cylinder assembly of claim 8 further
2 comprising a third set of one or more driver pin bores aligned with a third plane extending
3 radially from the principal axis of the cylinder bore and not parallel to either the first plane or
4 any of the bores in the second set of driver pin bores.

1 Claim 11 (original) The mogul cylinder assembly of claim 10 wherein the first and third
2 planes are aligned with the principal axis of the cylinder bore, and the first and third planes
3 are disposed to either side of one of the bores in the second set of driver pin bores radially
4 about the principal axis of the cylinder bore by the same angle.

1 Claim 12 (currently amended) The mogul cylinder assembly of claim 8 further
2 comprising a first hardened dowel pin shielding device disposed between the first set of
3 driver pin bores and the front surface of the lock housing mogul and a second hardened
4 dowel pin disposed between the first hardened dowel pin and the first set of driver pin
5 bores.

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1 Claim 13 (currently amended) The mogul cylinder assembly of claim 8 further
2 comprising a hardened shielding device having the shape of a disk having a rectangular
3 cutout therein disposed between the first set of pass key pin bores and the front surface of
4 the cylinder blank.

1 Claim 14 (currently amended) The mogul cylinder assembly of claim 8 further
2 comprising a first set of one or more hardened dowel pins ~~shielding devices~~ disposed
3 between the first and second sets of driver pin bores and the front surface of the lock housing
4 mogul and one or more hardened shielding devices having the shape of a disk having a
5 rectangular cutout therein disposed between the first and second sets of pass key pin bores
6 and the front surface of the cylinder blank.

1 Claim 15 (currently amended) A mogul cylinder assembly comprising:
2 a generally-cylindrical lock housing mogul having a front surface and a principal
3 axis and having a cylinder bore having a principal axis parallel to and offset from the
4 principal axis of the lock housing mogul and an inner surface disposed therein,
5 a first set of driver pin bores, each having a threaded portion, aligned with a
6 first driver pin plane extending radially from the principal axis of the cylinder bore,
7 a second set of one or more driver pin bores, each having a threaded
8 portion, aligned with a second driver pin plane extending radially from the principal
9 axis of the cylinder bore, and

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a third set of one or more driver pin bores, each having a threaded portion,
aligned with a third driver pin plane extending radially from the principal axis of the
cylinder bore;
a cylinder blank disposed within the cylinder bore and having
a principal axis aligned parallel to and offset from the principal axis of the
lock housing mogul,
a first set of pass key pin bores each aligned to one of the driver pin bores in
the first set of driver pin bores of the lock housing mogul,
a second set of pass key pin bores each aligned to one of the driver pin bores
in the second set of driver pin bores of the lock housing mogul, and
a third set of pass key pin bores each aligned to one of the driver pin bores in
the third set of driver pin bores of the lock housing mogul;
a first set of driver pins, each disposed within one of the driver pin bores in the first
set of driver pin bores;
a first set of pass key pins, each having a conical end and disposed within one of the
pass key pins bores in the first set of pass key pin bores;
a second set of driver pins, each disposed within one of the driver pin bores in the
second set of driver pin bores;
a second set of pass key pins, each having a conical end and disposed within one of
the pass key pins bores in the second set of pass key pin bores;
a third set of driver pins, each disposed within one of the driver pin bores in the third
set of driver pin bores; and

32 a third set of pass key pins, each having a conical end and disposed within one of
33 the pass key pins bores in the third set of pass key pin bores.

1 Claim 16 (currently amended) The mogul cylinder assembly of claim 15 further
2 comprising

3 a first hardened dowel pin shielding device disposed between the first set of
4 driver pin bores and the front surface of the lock housing mogul on a first side of the
5 first driver pin plane,

6 a second hardened dowel pin disposed between the first set of driver pin
7 bores and the front surface of the lock housing mogul on a second side of the
8 first driver pin plane, and

9 a third hardened dowel pin disposed between the first and second
10 hardened dowel pins and the first set of driver pin bores and aligned to the first
11 driver pin plane.

1 Claim 17 (currently amended) The mogul cylinder assembly of claim 15 further
2 comprising a hardened shielding device having the shape of a disk having a rectangular
3 cutout therein disposed between the first set of pass key pin bores and the front surface of
4 the cylinder blank.

1 Claim 18 (currently amended) The mogul cylinder assembly of claim 15 further
2 comprising one or more hardened dowel pins ~~shielding devices~~ disposed between the first
3 and second sets of driver pin bores and the front surface of the lock housing mogul and one
4 or more hardened shielding devices having the shape of a disk having a rectangular
5 cutout therein disposed between the first and second sets of pass key pin bores and the front
6 surface of the cylinder blank.

1 Claim 19 (currently amended) The mogul cylinder assembly of claim 15 wherein the
2 first, second, and third sets of pass key pins are protected by a hardened cylinder shield
3 having the shape of a disk having a rectangular cutout therein disposed between the pass
4 key pin bores and the front surface of the cylinder blank.

1 Claim 20 (original) The mogul cylinder assembly of claim 15 wherein each of the first,
2 second, and third sets of driver pins are protected by one or more hardened dowel pins
3 disposed between the driver pin bores and the front surface of the lock housing mogul.
